

SONY®

Integrated AV Amplifier

Operating instructions

MC-Service

TA-VE150

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Precautions

On safety

- Should any solid object or liquid fall into the cabinet, unplug the amplifier and have it checked by qualified personnel before operating it any further.

On power sources

- Before operating the amplifier, check that the operating voltage is identical with your local power supply. The operating voltage is indicated on the nameplate at the rear of the amplifier.
- The amplifier is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the amplifier itself has been turned off.
- If you are not going to use the amplifier for a long time, be sure to disconnect the amplifier from the wall outlet. To disconnect the mains lead, grasp the plug itself; never pull the cord.
- The AC power cord (mains lead) must be changed, at a qualified service shop only.
- The mains switch is located on the front exterior.

On placement

- Do not install the appliance in a confined space, such as a bookcase or built in cabinet.
- Place the amplifier in a location with adequate ventilation to prevent heat buildup and prolong the life of the amplifier.
- Do not place the amplifier near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place anything on top of the cabinet that might block the ventilation holes and cause malfunctions.

On operation

- Before connecting other components, be sure to turn off and unplug the amplifier.

On cleaning

- Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.

If you have any question or problem concerning your amplifier, please consult your nearest Sony dealer.

About This Manual

Conventions

- The instructions in this manual describe the controls on the amplifier. You can also use the controls on the remote if they have the same or similar names as those on the amplifier.
- The following icons are used in this manual:



Indicates that you can use only the remote to do the task.



Indicates hints and tips for making the task easier.

This amplifier has the Dolby Surround system.

Manufactured under license from Dolby Laboratories Licensing Corporation.


"Dolby", the double-D symbol  and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

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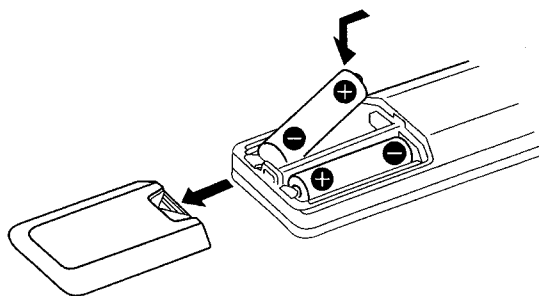
Unpacking

Check that you received the following items with your amplifier:

- Remote controller (remote) (1)
- Size AA (R6) batteries (2)
- Scart adaptor (1)

Inserting batteries into the remote

Insert two size AA (R6) batteries with the + and – on the battery compartment. When using the remote, point it at the remote sensor  on the amplifier.



When to replace batteries

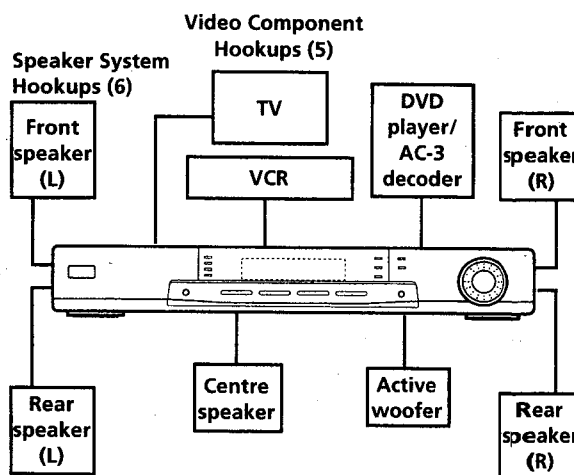
Under normal use, the batteries should last for about 6 months. When the remote no longer operates the amplifier, replace both batteries with new ones.

Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Hookup Overview

The amplifier allows you to connect and control the following video components. Follow the hookup procedures for the components that you want to connect to the amplifier on the pages specified. To learn the locations and names of each jack, see "Rear Panel Descriptions" on page 19.



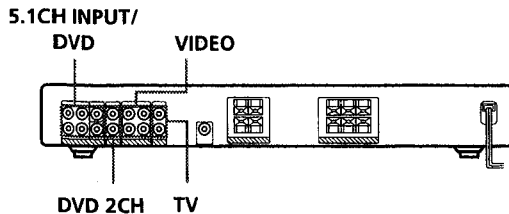
Before you get started

- Turn off the power to all components before making any connections.
- Do not connect the mains lead until all of the connections are completed.
- Be sure to make connections firmly to avoid hum and noise.
- When connecting an audio cable, be sure to match the colour-coded pins to the appropriate jacks on the components: White (left, audio) to White; and Red (right, audio) to Red.

Video Component Hookups

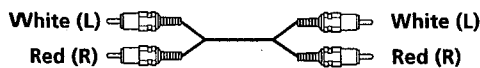
Overview

This section describes how to connect video components to the amplifier. For specific locations of the jacks, see the illustration below.

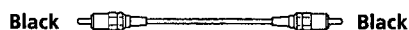


What cords will I need?

- Scart adaptor (supplied)
- Euro AV cable (not supplied) (1 for each TV or VCR)
- Audio cords (not supplied) (1 for each DVD player or recording VCR, 2 for AC-3 decoder's FRONT and REAR jacks)



- Monaural audio cords (not supplied) (2 for AC-3 decoder's CENTER and WOOFER jacks)

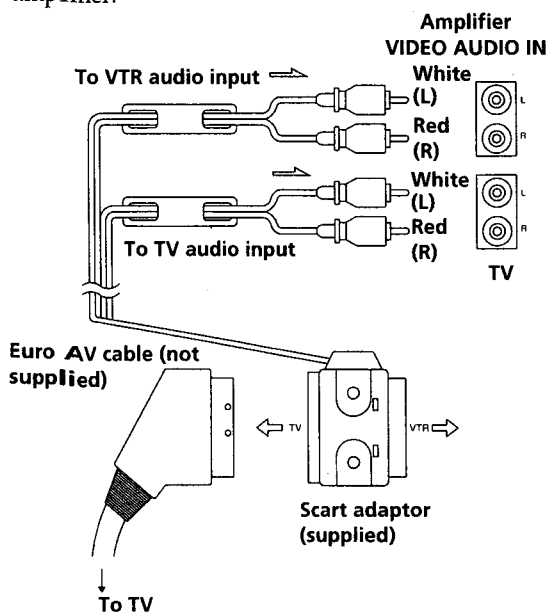


Hookups

The arrow ➡ indicates signal flow.

TV/VCR

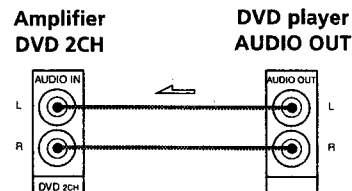
You can listen to the sound from VCR or TV by connecting the audio signal from VCR or TV to the amplifier.



💡 If you have another component, such as a second VCR or LD player, connect it to the DVD 2CH jacks.

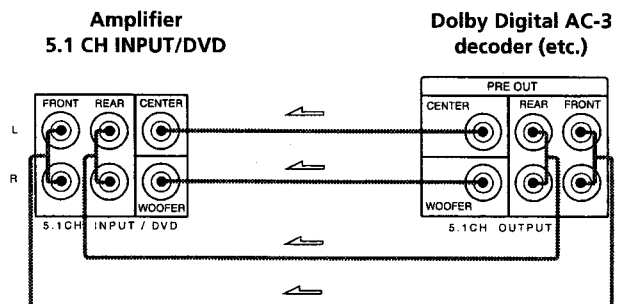
DVD Player

If your DVD player does not have 5.1 CH output, connect the audio output jacks of the DVD player to the DVD 2CH jacks of the amplifier.



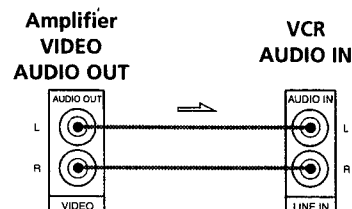
DVD player with AC-3 decoder

If you have a Dolby Digital (AC-3) decoder or a DVD player with a built-in AC-3 decoder, you can play decoded Dolby Digital (AC-3) soundtracks through the speakers connected to the amplifier. Connect the decoder as follows:



Recording Component (VCR, etc.)

You can record the sounds from the connected equipment by connecting a recording component such as a VCR to the amplifier.



💡 Use the function button (TV or DVD 2CH) to select the signal input to the TV or DVD 2CH jacks. You can listen to and record the selected signal.

Note

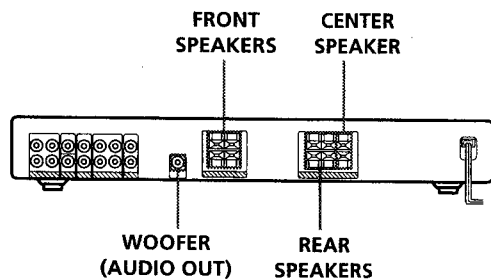
To record the video signal, you need to connect the video signal directly from the playback component to the recording component.

Speaker System Hookups

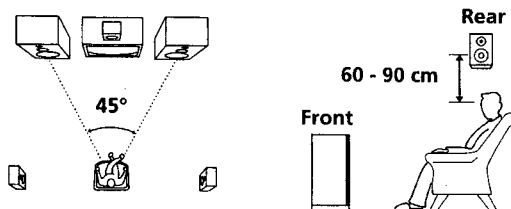
Overview

This section describes how to connect your speakers to the amplifier. Connecting an active woofer will increase bass response.

For specific locations of the terminals, see the illustration below.



For optimum surround sound effect, place your speakers as shown below.



What cords will I need?

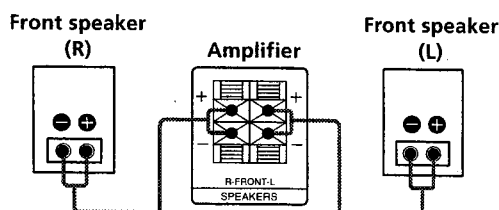
Speaker cord (not supplied) (1 for each speaker)



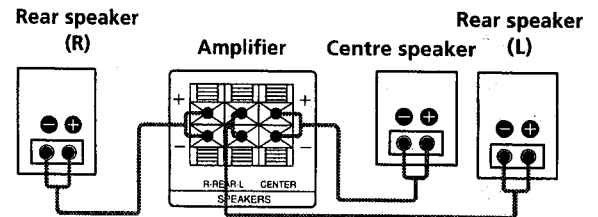
Twist the stripped ends of the cord about 15 mm (2/3 inch). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and - to -. If the cords are reversed, the sound will be distorted and will lack bass.

Hookups

Front speakers



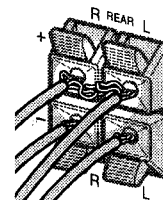
Rear and centre speakers



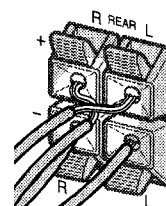
To avoid short-circuiting the speakers

Short-circuiting of the speakers may damage the amplifier. To prevent this, make sure to take the following precautions when connecting the speakers. Make sure the stripped ends of each speaker cord does not touch another speaker terminal or the stripped end of another speaker cord.

Examples of poor conditions of the speaker cord:



Stripped speaker cord is touching another speaker terminal.



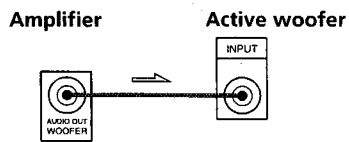
Stripped cords are touching each other due to excessive removal of insulation.

After connecting all the components, speakers, and AC power cord, output a test tone to check that all the speakers are connected correctly. For details on outputting a test tone, refer to "Adjusting the speaker volume" on page 14.

If you have connected rear speakers, be sure to press the 5.1 CH INPUT/DVD button on the amplifier before outputting a test tone so that the tone is output individually from the left and right rear speakers.

If no sound is heard from a speaker while outputting a test tone or a test tone is output from a speaker other than the one whose name is currently displayed on the amplifier, the speaker may be short-circuited. If this happens, check the speaker connection again.

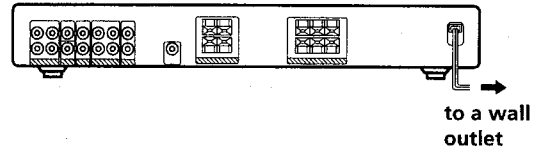
Active woofer



AC Hookups

Connecting the mains lead

Connect the mains lead from this amplifier and from your video components to a wall outlet.



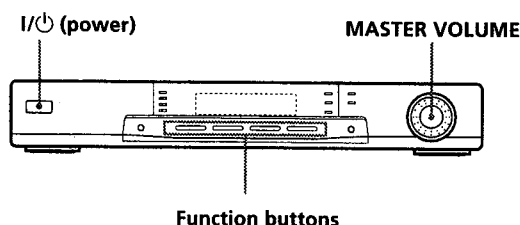
Amplifier Operations

Selecting a Component

To listen to a connected component, first select the function on the amplifier or with the remote.

Before you begin, make sure you have:

- Connected all components securely and correctly as indicated on pages 5 to 7.



- 1 Press I/⏻ (power) to turn on the amplifier.
- 2 Turn MASTER VOLUME to VOL MIN (indicated on the display) to avoid damaging your speakers.
- 3 Press a function button to select the component you want to use:

To watch	Press	TV input mode
Video tapes	VIDEO	VIDEO
TV programmes	TV	VIDEO
Digital video disc (DVD)	DVD 2 CH	VIDEO
DVD through AC-3 decoder	5.1 CH INPUT/ DVD	VIDEO

To operate with the remote

Refer to "Using the remote" on page 9 for details.

- 4 Turn on the component, the VCR for example, and start playback.
- 5 Turn MASTER VOLUME to adjust the volume.

To	Do this
Mute the sound	Press MUTING on the remote. Press again to restore the sound.
Reinforce the bass	Press BASS BOOST on the remote to turn on the BASS BOOST indicator.

Note

When you are listening to the 5.1 CH INPUT/DVD, BASS BOOST does not function.

Watching video programmes

To take full advantage of the amplifier's surround sound effects, like Dolby Surround, turn off the speakers on your TV before you start. This also lets you use the amplifier's remote to control the sound.

To watch TV programmes, do the following:

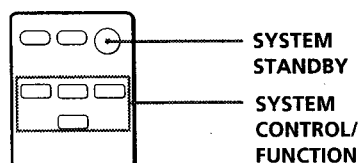
- 1 Turn on your TV.
- 2 Turn on the amplifier and press TV.

To watch videos or DVDs, do as follows:

- 1 Turn on your TV and set the TV's input to match the video component you watch.
- 2 Turn on the amplifier and press the function button (VIDEO, DVD 2CH or 5.1 CH INPUT/DVD) to select the component you want to use.
- 3 Turn on the video component and start playback.

Using the remote

The remote lets you operate the amplifier and the Sony components that are connected to it.



- 1 Press one of the SYSTEM CONTROL/FUNCTION buttons to select the component you want to use.

The amplifier and the selected component turn on.

The SYSTEM CONTROL/FUNCTION buttons on the remote are factory-set as follows:

To play	Press
VHS Tapes (VTR-3 mode)	VIDEO
TV programmes	TV
DVD player (for 2-ch playback)	DVD
DVD player/ AC-3 decoder	5.1 IN

If you want to change the factory setting of a button

See "Changing the Factory Setting of a FUNCTION Button" on page 10.

If the component does not turn on

Press the power switch on the component.

- 2 Start playing.
Refer to "Remote Button Descriptions" on page 18 for details.

To turn off the components

Press SYSTEM STANDBY. This will also turn off the Sony video / audio component at the same time. If the component does not turn off, press the power switch on the component.

If you use a Sony TV

- The TV turns on automatically and switches to the appropriate video input when you press VIDEO. If the TV does not switch to the appropriate input automatically, press TV/VIDEO on the remote.
- When you use the TV only, turn on the TV using the TV's remote.

Changing the Factory Setting of a FUNCTION Button

If the factory settings of the SYSTEM CONTROL / FUNCTION buttons ("Using the remote" on page 9) don't match your system components, you can change them. The following table shows the possibility of alternate function assignment for each button.

Button	Possible assignment
VIDEO	VTR 1, VTR 2, VTR 3
DVD	DVD, LDP, CD

* Initial setting of VIDEO is VTR 3.

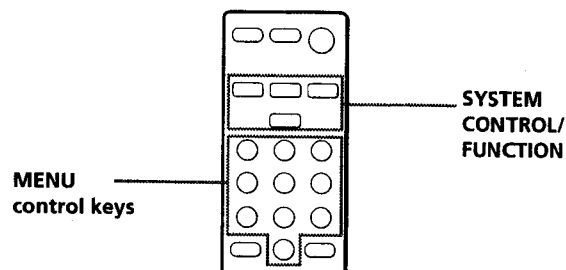
* Sony VCRs are operated with a VTR 1, 2, or 3 setting that corresponds to Beta, 8mm, and VHS, respectively.

Resetting key table for function key VIDEO

VTR 1	CURSOR UP
VTR 2	ENTER/EXECUTIVE
VTR 3	CURSOR DOWN

Resetting key table for function key DVD

DVD	EXIT/RETURN
LD	DISPLAY
CD	CURSOR RIGHT



For example, if you connect a Sony LD player to the DVD jacks, you can assign the DVD button to set the remote to control the LD player.

- 1 Hold down the SYSTEM CONTROL / FUNCTION button whose function you want to change (DVD, for example).
- 2 Press the corresponding button of the component you want to assign to the SYSTEM CONTROL / FUNCTION button (DISPLAY, LD player, for example).

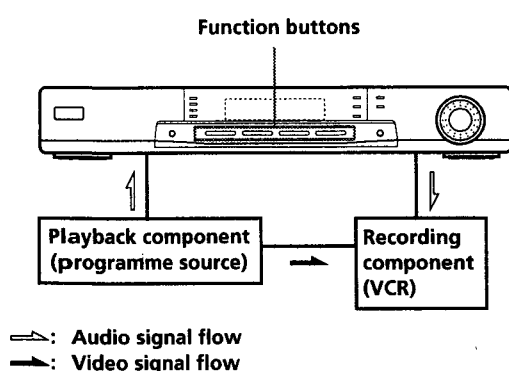
Now you can use the DVD button to control your Sony LD player.

To reset the setting to the factory setting
Repeat the above procedure.

Recording

This amplifier makes it easy to record to and from the components connected to the amplifier. Once you select a programme source on the amplifier, you can record and edit as you normally would using the controls on each component.

Before you begin, make sure you've connected all components properly. Note that you must connect the video signal directly between the playback component and the recording component.



Recording on a video tape

You can record from a TV or a DVD player (DVD 2 CH INPUT) using the amplifier. See your VCR or DVD player's instruction manual if you need help.

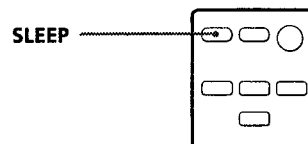
- 1** Press DVD (if an DVD player is connected to the DVD jacks) to select the programme source.
- 2** Set the component to be ready for playing. For example, insert the disc you want to record from into the DVD player.
- 3** Insert a blank video tape into the VCR for recording.
- 4** Start recording on the VCR and then start playing the disc you want to record.

Note

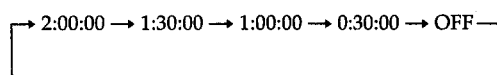
You cannot record the signal input to the VIDEO and 5.1 CH INPUT/DVD jacks.

Using the Sleep Timer

You can set the amplifier to turn off automatically at a time you specify.



Press SLEEP on the remote while the power is on. Each time you press SLEEP, the time changes as shown below.



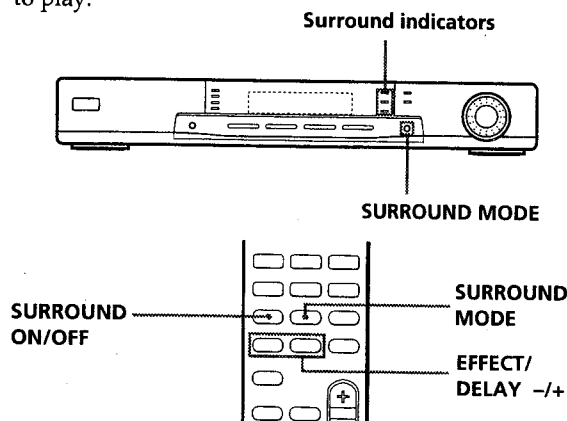
The display dims after you specify the time.

You can check the time remaining before the amplifier turns off

Press SLEEP on the remote. The remaining time appears in the display.

Choosing a Surround Mode

You can take advantage of surround sound simply by selecting one of the three pre-programmed surround modes according to the type of programme you wish to play.



- 1 Press **SURROUND MODE** or **SURROUND ON/OFF** on the remote to turn on the surround sound. One of the **SURROUND** indicators lights up in the display.
- 2 Press **SURROUND MODE** or **SURROUND MODE** on the remote repeatedly until the indicator for the surround mode you want lights up. Select the appropriate surround mode as follows:

Select	To
PRO LOGIC	Decode programmes processed with Dolby Surround and create the atmosphere of a movie theatre.
C. STUDIO (Cinema Studio)	Reproduce the acoustics of a cinema studio of Sony Picture Entertainment.
SIMULATED	Create a simulated surround sound from monaural sources such as old movies or TV programmes.

To turn off surround sound

Press **SURROUND ON/OFF** on the remote.

You can find Dolby Surround-encoded software by looking at the packaging

However, some videos and laser discs may use Dolby Surround sound even if it's not indicated on the package.

Note

Surround sound is turned off when you select the 5.1 CH INPUT/DVD.

Adjusting the effect level (for C. STUDIO and SIMULATED only)



You can make the surround sound more prominent by increasing the **EFFECT** level. This control lets you adjust the "presence" of the surround effect in six steps (1-6).

- 1 Start playing a programme source.
- 2 Use **EFFECT/DELAY (-/+)** on the remote to select the level you prefer. The effect level is indicated on the display.

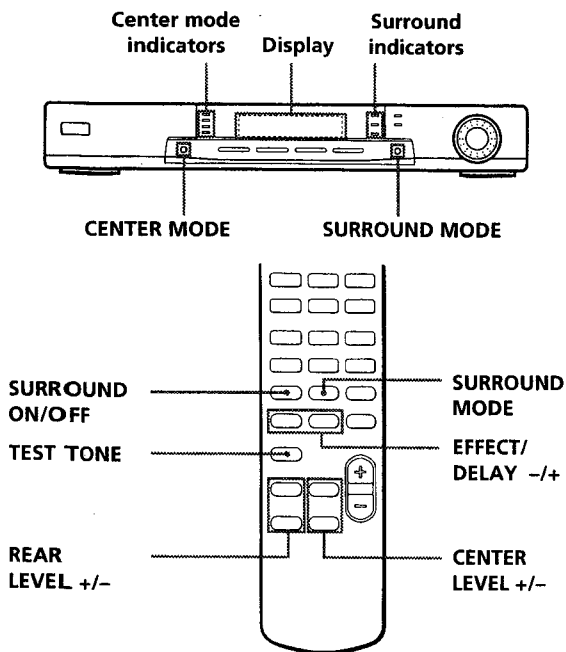
Note

Changing the effect level may not produce major variations in the surround effect when used with certain playback sources.

Getting the Most Out of Dolby Pro Logic Surround Sound

To obtain the best possible Dolby Pro Logic Surround sound, first select the centre mode according to the speaker system you have. Then, adjust the volume of each speaker.

Note that you must connect the rear speakers and/or one centre speaker to do the following adjustments.



Selecting the centre mode

The amplifier offers you four centre modes: Phantom, Wide, Normal and 3 Stereo. Each mode is designed for a different speaker configuration. Select the mode that best suits your speaker's system configuration:

- 1 Press SURROUND MODE repeatedly to select the PRO LOGIC sound field.
- 2 Press CENTER MODE repeatedly until the indicator for the centre mode you want lights in the display. Select the centre mode as follows:

If you have	Select	So that
Front and rear speakers, no centre speaker	PHANTOM	The sound of the centre channel is output from the front speakers.
Front and rear speakers, and a large centre speaker	WIDE	For "complete" Dolby Pro Logic Surround sound.
Front and rear speakers, and a small centre speaker	NORMAL	The bass sound of the centre channel is output from the front speakers (because a small speaker cannot produce enough bass).
Front and centre speakers, no rear speaker	3 STEREO (3 Channel Logic)	The sound of the rear channel is output from the front speakers.

Adjusting the speaker volume



The test tone feature lets you set the volume of your speakers to the same level.

Using the controls on the remote lets you test the speaker connection and adjust the volume level from your listening position.

- 1 Press TEST TONE on the remote.
You will hear the test tone from each speaker sequentially.
- 2 Adjust the volume level so that the test tone from each speaker is at the same level from your listening position.
 - To adjust the level of centre speaker, press CENTER LEVEL + or – on the remote.
 - To adjust the level of rear speakers, press REAR LEVEL + or – on the remote.The centre and rear levels are indicated on the display.
- 3 Press TEST TONE on the remote to turn off the test tone.



You can adjust all speakers at one time

Adjust MASTER VOL on the remote or MASTER VOLUME on the amplifier.



You can increase the output level of the rear speakers

The adjustment range of the rear speakers is preset from –10 to +6, but you can shift the range up 3 levels (–7 to +9). Hold down SURROUND MODE on the amplifier while turning on the power until “GAIN UP” appears on the display.

The values for the rear level remain fixed at –10 to +6 in the display, but you will be able to hear the difference in the actual output level.

To reset the rear level adjustment range, repeat this procedure to display “NORMAL”.

Note

During 5.1 CH INPUT/DVD mode, CENTER LEVEL and REAR LEVEL cannot be adjusted.

Adjusting the delay time



You can make the surround sound more effective by delaying the output from the rear speakers (delay time). You can select from three delay times, S (15 mS), M (20 mS), and L (30 mS). For example, if you've placed the rear speakers in a large room or apart from your listening position, set the delay time shorter.

- 1 Start playing a programme source encoded with Dolby Surround sound.
- 2 Press SURROUND MODE repeatedly to select the PRO LOGIC mode.
- 3 Press EFFECT/DELAY (–/+) on the remote repeatedly to choose the delay time parameter. The current delay time appears in the display, such as “DELAY S,” “DELAY M” or “DELAY L.”

Troubleshooting

If you experience any of the following difficulties while using the amplifier, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer.

There's no sound or only a very low-level sound is heard.

- ➔ Check that the speakers and components are connected securely.
- ➔ Press MUTING on the remote if the MUTING indicator turns on.
- ➔ Make sure you select the correct component on the amplifier.
- ➔ Check whether or not you used the appropriate AV cables.
- ➔ The protective device on the amplifier has been activated because of a short circuit. ("PROTECT" flashes.) Turn off the amplifier, eliminate the short-circuit problem and turn on the power again.

The left and right sounds are unbalanced or reversed.

- ➔ Check that the speakers and components are connected correctly and securely.

Severe hum or noise is heard.

- ➔ Check that the speakers and components are connected securely.
- ➔ Check that the connecting cords are away from a transformer or motor, and at least 3 meters (10 feet) away from a TV set or fluorescent light.
- ➔ Place your TV away from the audio components.
- ➔ The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.

No sound or only a very low-level sound is heard from the rear speakers.

- ➔ Select the appropriate centre mode (see page 13).
- ➔ Adjust the speaker volume appropriately (see page 14).
- ➔ Make sure you turned on the surround mode.

Note

The Dolby Surround effect is dependent on the software and reception mode being used.

Check the speaker levels using the test mode and make sure to use stereo recordings and to set the TV and VCR to stereo reception mode.

No sound is heard from the centre speaker.

- ➔ Select the appropriate centre mode (see page 13).
- ➔ Adjust the speaker volume appropriately (see page 14).

Surround effect cannot be obtained.

- ➔ Make sure you turn on the surround mode.


No picture or an unclear picture is seen on the TV screen.

- ➔ Select the appropriate input on your TV.
- ➔ Select the appropriate component on the amplifier.

Recording cannot be made.

- ➔ Check that the components are connected correctly (see page 5 to 7).
- ➔ Make sure you select the correct component on the amplifier.

The remote does not function.

- ➔ Point the remote at the remote sensor  on the amplifier.
- ➔ Remove the obstacles in the path of the remote and the amplifier.
- ➔ Replace both batteries in the remote with new ones if they are weak.
- ➔ Make sure you select the correct function on the remote.

Additional Information

Specifications

Amplifier section

Power output

Stereo mode (DIN 1 kHz, 8 ohms)
25W + 25W

Surround mode (DIN 1 kHz, 8 ohms)
Front: 25 W / ch
Centre: 25 W
Rear: 25 W / ch

5.1 CH INPUT/DVD mode (DIN 1 kHz, 8 ohms)
Front: 25 W / ch
Centre: 25 W
Rear: 25 W / ch

Frequency response TV, VIDEO, DVD-2CH,
5.1 CH INPUT/DVD :
20 Hz - 50 kHz \pm 1dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
TV, VIDEO, DVD-2CH, 5.1 CH INPUT/ DVD	200 mV	50 kilohms	82 dB* (A, 150 mV)

* '78 IHF

Outputs

VIDEO (AUDIO OUT):
Voltage: 200 mV,
Impedance: 1 kilohms
WOOFER:
Voltage: 2 V
Impedance: 1 kilohms

Muting

Full mute

BASS BOOST

+9 dB at 70 Hz

General

Power requirements 230 V AC, 50/60 Hz

Power consumption 115 W

Dimensions 430 x 274 x 64.5 mm

Mass (Approx.) 5.4 kg

Supplied accessories

Remote controller
(remote) (1)
Size AA (R6) batteries (2)
Scart adaptor (1)

Design and specifications are subject to change without notice.

Specifications indicated are measured at 230 VAC, 50Hz.

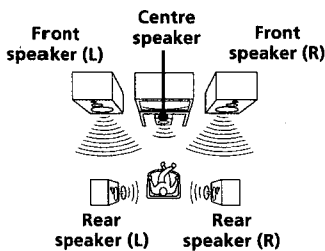
Glossary

Centre mode

Setting of speakers to enhance Dolby Pro Logic Surround mode. To obtain the best possible surround sound, select one of the following four centre modes according to your speaker system.

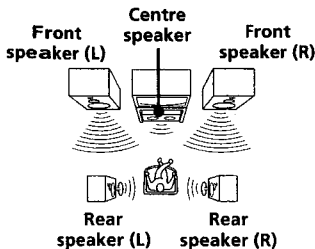
• NORMAL mode

Select NORMAL mode if you have front and rear speakers and a small centre speaker. Since a small speaker cannot produce enough bass, the bass sound of the centre channel is output from the front speakers.



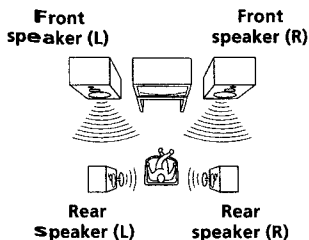
• WIDE mode

Select WIDE mode if you have front and rear speakers and a large centre speaker. With the WIDE mode, you can take full advantage of Dolby Surround sound.



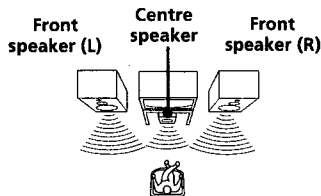
• PHANTOM mode

Select PHANTOM mode if you have front and rear speakers but no centre speaker. The sound of the centre channel is output from the front speakers.



• 3 STEREO (3 CH LOGIC)

Select 3 STEREO mode if you have front and centre speakers but no rear speaker. The sound of the rear channel is output from the front speakers to let you experience some of the surround sound without using rear speakers.



Dolby Pro Logic Surround

Decoding system of Dolby Surround sound standardized in TV programmes and movies. Compared with the former Dolby Surround system, Dolby Pro Logic Surround improves sound image by using four separate channels: off-screen audio effects, on-screen dialog, left-to-right panning, and music. These channels manipulate the sound to be heard and enhance the action as it happens on the screen. To take advantage of Dolby Pro Logic, you should have at least one pair of rear speakers and/or one centre speaker. You also need to select the appropriate centre mode to enjoy a full effect.

Dolby Digital (AC-3)

This surround format is more advanced than Dolby Pro Logic Surround. In this format, the rear speakers output stereo sound with an expanded frequency range and a subwoofer channel for deep bass is independently provided. This format is also called "5.1" because the subwoofer channel is counted as 0.1 channel (since it functions only when a deep bass effect is needed.)

All six channels in this format are recorded separately to realize superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs. The name "AC-3" comes from the fact that it is the third audio coding method to be developed by the Dolby Laboratories Licensing Corporation.

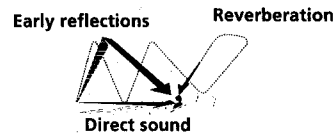
5.1 CH INPUT/DVD jacks

These jacks are used to input decoded Dolby Digital (AC-3) audio signals, allowing you to enjoy 5.1 channel surround sound. Use these jacks to connect a Dolby Digital (AC-3) decoder or a DVD player with a built-in AC-3 decoder.

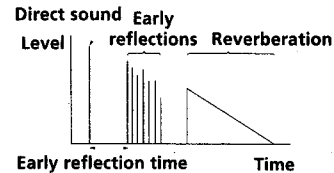
Surround sound

Sound that consists of three elements: direct sound, early reflected sound (early reflections) and reverberative sound (reverberation). The acoustics where you hear the sound affect the way these three sound elements are heard. These sound elements are combined in such a way that you can actually feel the size and the type of a concert hall.

• Types of sound



• Transition of sound from rear speakers

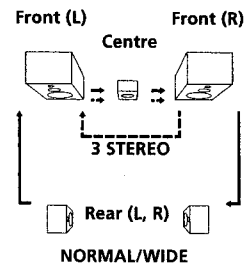


Test tone

Signal given out by the amplifier for adjusting the speaker volume. The test tone will come out as follows:

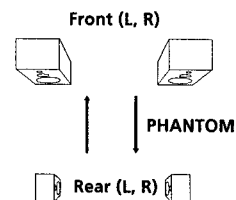
• In a system with a centre speaker (NORMAL/WIDE/3 STEREO modes)

The test tone is output from the front L (left), centre, front R (right), and rear speakers in succession.



• In a system without a centre speaker (PHANTOM mode)

The test tone is output from the front and the rear speakers alternately.



Additional Information

Remote Button Description

For buttons not described on previous pages and buttons with names different from the buttons on the main unit.

Remote Button	Operates	Function
◀◀/▶▶	VCR/DVD/ CD/LDP	Fast forwards or rewinds.
◀◀/▶▶	DVD/CD/LDP	Skips tracks.
⏸	VCR/DVD/ CD/LDP	Pauses play.
▶	VCR/DVD/ CD/LDP	Starts play.
■	VCR/DVD/ CD/LDP	Stops play.
VISUAL I/⏻	TV/VCR/ DVD/LDP	Turns on or off the power.
ENTER/ EXECUTE	TV/VCR/DVD	Confirm setting.
ANT TV/VTR	VCR	Selects output signal from the antenna terminal: TV signal or VCR program.
MENU	TV/VCR/DVD	Display menu.
TITLE	DVD	Display current DVD title.
EXIT/ RETURN	TV/DVD	Exit from menu mode or return to previous screen.
DISPLAY	TV	TV display.
▲	TV/VCR/DVD	To increase a value or move the cursor upwards on the menu screen such as VIDEO CONTROL/AUDIO CONTROL/SET UP/LANGUAGE/DEMO
▼	TV/VCR/DVD	To decrease a value or move the cursor downwards on the menu screen such as VIDEO CONTROL/AUDIO CONTROL/SET UP/LANGUAGE/DEMO
>	TV/VCR/DVD	To move the cursor to the right side of the menu screen.
<	TV/VCR/DVD	To move the cursor to the left side of the menu screen.

Remote Button	Operates	Function
VTR CH +/-	VCR	VCR channel selection.
TV CH +/-	TV	TV channel selection.
TV VOL +/-	TV	To adjust the TV volume.

* The MENU control keys may not operate on certain Sony TVs.

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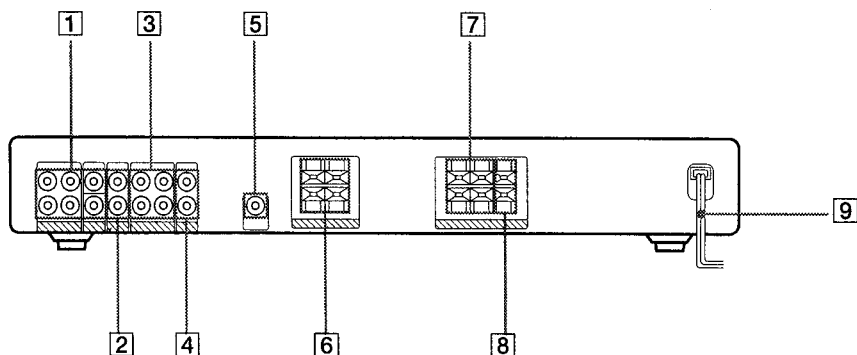
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Rear Panel Descriptions



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- 6 FRONT SPEAKERS

- 7 REAR SPEAKERS
- 8 CENTER SPEAKER
- 9 Mains lead